

**Minutes**

**MEETING NAME**                    WG-34 Photoacoustics Teleconference

**MEETING PLACE/DIAL IN**

**DATE & TIME**                    Thursday, May 12, 2022, 12:15 PM ET

**PRESIDING OFFICERS**            American College of Radiology - Brian Bialecki (Co-Chair)

**VOTING MEMBERS PRESENT**      Seno Medical Instruments                    Allison Bertrand, Alt-Voting  
    Seno Medical Instruments, Inc.            Bryan Clingman

**VOTING MEMBERS ABSENT**            University of Cambridge                    Sarah Bohndiek\*  
    University College London                Ben Cox  
    Carl Zeiss Meditec AG                    Stefanie Freitag\*  
    SuperSonic Imagine                        Damien Lerat\*  
    iThera Medical GmbH                      Stefan Morscher (Co-Chair)  
    GE Healthcare                                Steven Nichols\*

\*Not present at two consecutive meetings and therefore not counted for quorum during this tcon

**DICOM SECRETARIAT**            Joint: SPIE/IPASC  
    Amanda Kalkwarf, SPIE, Secretariat

1. OPENING ITEMS:

- **Call to order:** The meeting was called to order. Staff recorded attendance and confirmed that a quorum was present.
- **NEMA Antitrust rules and DICOM Patent Policy:** Staff reviewed the Guidelines for Conducting NEMA Meetings and patent policy.

2. REVIEW AND APPROVE AGENDA: The agenda was reviewed.

3. REVIEW MINUTES: The minutes from the 2022-04-28 meeting were reviewed.

4. TOPIC ITEMS TO BE DISCUSSED:

- Discussion of the work item:
  - Approve changes made since 2022-04-28 Meeting on the Google Drive:

The document was reviewed in the Google Drive.

Discussion ensued about “Dimensioning Update,” and there was agreement to move it from Open Issues to the Closed Issues list.

The Closed Issues list now contains “Dimensioning Update” and “In the Use Case/examples section some mandatory attributes have been omitted. . . “

The one remaining Open Issue is Event Timing in Ultrasound.

Proposed edit to AA.XX.1 “Photoacoustic Image IOD Description” was accepted.”

Discussion ensued about Table c.7.6.16-3 “Frame Content Macro Attributes,” specifically the requirements of Frame Reference DateTime, as well as original and derived images. A note was made that “per meeting discussion - copy ORIGINAL Frame Acquisition DateTime to DERIVED Frame Reference DateTime.”

Accepted to move the text, “Required if the value of SOP Class UID (0008, 0016) equals 1.2.840. . . “ from Frame Reference DateTime to Frame Acquisition DateTime.”

There was discussion about where values are stored in C.8.XX Photoacoustic Modules.

There was discussion about the Detector Response Field Code Sequence in the Detector Module Table. There was agreement to proposed edits to the description of the Detector Response Field Code Sequence. A “Units” column was added to Table CID XXYA.

Proposed additional definitions in the Data Dictionary accepted.

Proposed edits to the definition of Detector Response Value accepted.

There was agreement to change “Detector Technology Description” to “Detector Technology Sequence.”

There were agreements to the proposed edits to Table C.8.XX.3-1 “Photoacoustic Module Attributes,” including changing “Speed of Sound Correction Mechanism Code Sequence” to “Sound Speed Correction Mechanism Code Sequence.”

There was agreement to change “Speed of Sound in Object” to “Object Sound Speed.”

There was agreement to change “Speed of Sound in Coupling Medium” to “Coupling Mechanism Sound Speed.”

There was agreement that if “Speed of Sound” is being changed to “Sound Speed” in one location, it should be changed in all attribute names, however examples in the standard text indicate that “Speed of Sound” may still be used in descriptions of attributes.

There was agreement to the proposed edits to the description of the Sound Speed Correction Mechanism Code Sequence.

There was agreement to the proposed edits to Table C.8.XX.3-1 Photoacoustic Reconstruction Module Attributes.

A member explained some changes made to the examples, lengthening them. Moving forward, WG-34 need to review the core purpose of the examples to see if some additional details could be omitted to make them a more reasonable length.

**Action Items:**

- Review how algorithms are defined in the DICOM standard in order to check the description of “Image Filtering.” – Bialecki
- Any Additional Items: N/A

5. Reminder of DICOM resources:

**FTP Server for exchange of documents:**

<ftp://d9-workgrps@medical.nema.org/MEDICAL/Private/Dicom/WORKGRPS/WG34/>

**Email listserv for discussion (must be on the list to post):**

[nema1+dicom-wg34-1579@discoursemail.com](mailto:nema1+dicom-wg34-1579@discoursemail.com)

Discussion guidelines: Use for directly related technical information, and avoid antitrust topics and discussion of patented technology (known patents must be disclosed)

**Meeting Minutes**

Will be circulated online and posted under WG-34 page here:

<https://www.dicomstandard.org/wgs>

New members please fill this out: <https://www.dicomstandard.org/participate> All are welcome. Voting members of this group are required to sign an organizational patent form (unless an individual, e.g. a student). Those wishing to join as a member of the DICOM Standard Committee to have input on DICOM’s priorities may inquire at the participate form.

6. OLD BUSINESS/NEW BUSINESS

7. DATE AND TIME OF NEXT MEETING

Thursday 2 June 2022, 12:15 PM ET

Submitted by: Amanda Kalkwarf, reviewed by Carolyn Hull 6/13/22

Reviewed by Counsel 6/15/2022

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**SUBMITTED BY**                      Enter submitter.

**SUBMITTED ON**                      6/13/2022

**LEGAL APPROVAL**                      Enter approval date.

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